

VIII.3.3-CHANGE-T CHANGE TIME SERIES DATA TIME INTERVAL OPERATION

Identifier: CHANGE-T

Operation Number: 20

Parameter Array: The FORTRAN identifier used for the parameter array is P. The contents of the P array are:

<u>Position</u>	<u>Contents</u>
1	Version number for the operation
2-3	Input time series identifier
4	Input time series data type code
5	Input time series data time interval
6-7	Output time series identifier
8	Output time series data type code
9	Output time series data time interval
10	Carryover needed indicator: 0 = carryover not needed >1 = carryover needed
11	Carryover source indicator: 0 = default value of zero used 1 = initial value read from input
12	Case indicator: 1 = MEAN time series and time interval increasing 2 = INST time series and time interval increasing 3 = ACCM time series and time interval increasing 4 = MEAN time series and time interval decreasing 5 = INST time series and time interval decreasing 6 = ACCM time series and time interval decreasing 7 = MEAN to INST conversion
13	Time scale for input time series
14	Time scale for output time series

Carryover Array: The FORTRAN identifier for the carryover array is C. The contents of the C array are one carryover value is stored except when converting a mean time series to instantaneous. In that case, the first location in the C array contains the previous midnight instantaneous value and the second location contains the previous mean daily value.

Subroutines Names and Functions: Subroutines associated with this Operation are:

<u>Subroutine</u>	<u>Function</u>
PIN20	Input information and fills the P and C arrays
PRP20	Print information stored in the P array
PRC20	Print information stored in the C array
COX20	Transfer carryover values from one set of parameters to another
PUC20	Generate card images from the PO array which can be read subroutine PIN20
EX20	Execute the Operation
FAJMDQ	Adjusts computed instantaneous values so that the volume is within specified tolerance of the input mean daily volume

Subroutines PIN20, PRP20, PRC20, COX20 and PUC20 have the standard argument lists for these subroutines as given in Section VIII.4.3.

SUBROUTINE EX20 (PO,CO,QIN,QOUT,QTEMP,MISSG)

Function: This is the execution subroutine for Operation CHANGE-T.

Argument List:

<u>Variable</u>	<u>Input/ Output</u>	<u>Type</u>	<u>Dimension</u>	<u>Description</u>
PO	Input	R*4	Variable	P array
CO	Both	R*4	Variable	C array
QIN	Input	R*4	Variable	Input time series whose time interval is to be changed
QOUT	Output	R*4	Variable	Output time series containing new values associated with the new time interval
QTEMP	-	R*4	Variable	Work space for routine FAJMDQ when converting MEAN to INST
MISSG	-	I*4	Variable	Work space for missing value indicator array for input time series - used only for conversion of MEAN to INST and passed to subroutine FAJMDQ: 0 = value present 1 = value missing

SUBROUTINE TAB20 (TO,LEFT,IUSET,NXT,LPO,PO,LCO,TS,MTS,NWORK,NDD,LWORK
,IDT)

Function: This is the Operations Table entry subroutine for
Operation CHANGE-T.

Argument List: The arguments for this subroutine are similar to the
arguments for the Operations Table entry subroutines for other
Operations. A description of the arguments is contained in section
VIII.4.2-TAB.

Operation Table Array: The contents of the TO array are:

<u>Position</u>	<u>Contents</u>
1	Operation number
2	Location in the T array of the next Operation to be executed
3	Location of the parameter array for the Operation in the P array
4	Location of the carryover array for the Operation in the C array: 0 = no carryover
5	Location of the input time series in the D array
6	Location of the output time series in the D array
7	Location of output work space: 0 = none used
8	Location of input work space: 0 = none used